

## AMENDMENTS TO THE CLAIMS

Please cancel Claim 4; amend Claims 1-3; and add new Claims 5-9 as follows.

### **LISTING OF CLAIMS**

1. (currently amended) A mold for molding a metallic product comprising a fixed mold section and a movable mold section defining a cavity, when the both are closed together, to be filled with molded metal wherein

the fixed mold section is provided with only heating means and the movable mold section is provided with only cooling means, both of which means are controlled by temperature control means, respectively, so that ~~[[the]]~~ temperature variations ~~in one cycle~~ of the fixed and movable mold sections are individually controllable~~[[.]]~~;

the fixed mold section is disposed on the injection side of molten metal to be molded; and

the temperature control means controls the temperature of the movable mold section in a range from a solidifying point of the molten metal to 0 °C when the mold is open and controls the temperature of the fixed mold section higher than the temperature of the movable mold section when the mold is open.

2. (currently amended) A mold for molding a metallic product as defined by claim 1, wherein ~~the fixed mold section is disposed on the injection side of molten metal to be molded, and~~ ejector pins for releasing a molded metallic product from the movable mold section are provided in the movable mold section.

3. (currently amended) A mold for molding a metallic product as defined by claim 1, wherein the temperature of the fixed mold section rises to a value in a range from 300 to 700 °C, ~~and the temperature of the movable mold section is controlled to a value in a range from a solidifying point, of the metal to be molded, to 0 °C.~~

4. (cancelled)

5. (new) A mold for molding a metallic product as defined by claim 1, wherein the temperature control means controls the temperatures of the movable mold section and the fixed mold section such that the temperature of the fixed mold section reaches a predetermined highest value and that of movable mold section reaches a predetermined lower value when the molten metal is injected into the cavity, and the temperature of the mold falls to a value at which the molded metallic product is releasable from the mold when opening the mold.

6. (new) A mold for molding a metallic product as defined by claim 5, wherein the temperature control means repeats the sequence of the temperature control.

7. (new) A mold for molding a metallic product as defined by claim 1, wherein the temperature control means

(1) heats the fixed mold section by the heating means and cools the movable mold section by the cooling means when the mold is open,

(2) enables the mold to be closed during the heating of the fixed mold section and the cooling of the movable mold section,

(3) heats the fixed mold section by the heating means and cools the movable mold section by the cooling means even after the mold has been closed,

(4) enables the molten metal to be injected into the cavity when the temperature of the fixed mold section has reached the predetermined highest value and that of the movable mod section has reached the predetermined lowest value,

(5) continues the cooling of the movable mold section and enables the mold to be opened when the mold temperature falls to the value at which the molded metallic product is releasable from the mold, and

(6) enables the molded metallic product to be removed from the mold.

8. (new) A mold for molding a metallic product as defined by claim 7, wherein the temperature control means repeats the sequence of the temperature control.

9. (new) A mold for molding a metallic product as defined by claim 1, wherein the fixed mold section is in direct contact with the movable mold section when the mold is closed.